

Work Order ID 140533

Thursday, January 07, 2016 1:24:31 PM

140533

Page 1

Item ID: D3631-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Washer

Start Date: 1/7/2016 Start Qty: 100.00

100

Cust Item ID:

Required Date: 1/7/2016 Req'd Qty: 100.00

100

Customer:

Reference:

Approvals:

Process Plan: MCSDate: JAN 07 2016

Tooling:

Date: _____

Run Start ***NR1***

QC:

Date: _____ SPC (Y/N): _____

Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3631	Rev A

100 PURCHASING 0.00

100

Purchasing

Memo

0.00

Purchasing

Issue P/O: 30969 Purchase Part Number: 95606A170 Supplier: Mc
Master Carr Certificate of conformity is requiredDAS
13
9-89

JAN 12 2016

100

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Memo

0.03

Packaging

Ensure certificate of conformity is attached

100X 8016-01-15

120 QC6- Inspect dimensions to drawing 0.00

120

QC

Memo

0.00

Quality Control

100DAS
38
9-89

JAN 18 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
				OTHER : ☐							

Work Order ID 140533***140533***

Page 2

Thursday, January 07, 2016 1:24:31 PM

Item ID: D3631-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Washer

Start Date: 1/7/2016 Start Qty: 100.00

100

Cust Item ID:

Required Date: 1/7/2016 Req'd Qty: 100.00

100

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

Identify as per dwg & Stock Location: _____

0.00

130

Packaging

Memo

LOCATION: FP001

0.02

Packaging

100

DAS
6
9-59

JAN 19 2016

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.17

Quality Control

MLJ

JAN 19 2016

MLJ JAN 19 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
☐ OTHER : _____									

Picklist Print

Page 1

Thursday, January 07, 2016 1:24:34 PM

Work Order ID: 140533

140533

Parent Item: D3631-1

D3631-1

Parent Item Name: Washer

Start Date: 1/7/2016

Required Date: 1/7/2016

Start Qty: 100.00

Required Qty: 100.00

Comments: IPP Rev:A New Issue 07-07-28 JLM Verified By:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
95606A170		Purchased		No		110	Each	0.0000	1	100			
95606A170									**				

Washer

100x80/6-01-15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

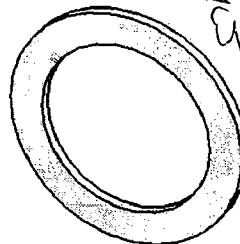
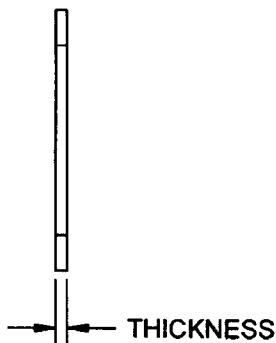
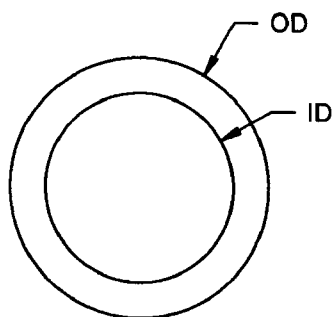
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							



DESIGN CB	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED PH	APPROVED [Signature]	DRAWING NO. D3631	REV. A SHEET 1 OF 1
DATE 07.05.16		TITLE WASHER SCALE NTS	
REV A	DATE 07.05.16	DESCRIPTION NEW ISSUE	

SPECIFICATION CONTROL DRAWING



STOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO ALIGNMENT
WITH OFFICE
WORKS (PARTIAL)
NO. 140533-M05
1601-07

D3631-X WASHER

RELEASED
07.08.02 [Signature]

PART NUMBER	OD	ID	THICKNESS	MATERIAL	SUPPLIER
D3631-1	0.688	0.500	0.031	NYLON	McMASTER-CARR P/N: 95606A170

NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO30969**

Purchase Order Date 1/12/2016

PO Print Date 1/12/2016

Page Number 1 of 7

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
JAN 12 2016

Contact Name

Vendor Phone 330 995 5500

Ship To Contact

Ship To Phone

Ship Via: Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	8672K31 AS PER DWG D4287 REV. A B140531	UHMW U-Channel	1/14/2016 Yes 1/14/2016		40.00 f	\$3.26	\$130.40
Line Total:							\$130.40
2	9928K53 AS PER DWG D4287 REV. A B140534	UHMW U-Channel	1/14/2016 Yes 1/14/2016		24.00 f	\$2.28	\$54.72
Line Total:							\$54.72
3	95606A170 AS PER DWG D3631 REV. A B140533	Washer	1/14/2016 Yes 1/14/2016		100.00 Each	\$0.09	\$8.60

Note:

1/12/2016

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO30969

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5554149-01

Page 1 of 1

01/12/2016

Line	Product	Ordered	Shipped
1	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width	40 Feet	40
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 8' Long	24 Feet	24
3	95606A170 Nylon Flat Washer, 7/16" Screw Size, 0.500" ID, 0.688" OD, Off-White, Packs of 100	1 Pack	1
4	92311A599 18-8 Stainless Steel Cup Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50	2 Packs	2
5	6718K52 Stainless Steel Industrial-Shape Hose Coupling, Plug, 1/4" NPTF Female, 1/4 Coupling Size	5 Each	5
6	3481T8 Reflective Aluminum Parking Sign, 12" X 18", "Visitor Parking Only"	2 Each	2
7	8841A21 Multi-Diameter Step Drill Bit, High-Speed-Steel, 13 Sizes, 1/8"-1/2", 1/4" Shank Diameter, 1/8" Max Thickness	8 Each	8
8	3814A301 8-Point Breakaway Blade for, Breakaway-Blade Knife, Packs of 100	2 Packs	2
9	8855K34 1006-1008 Carbon Steel Wire, Galvanized, .063" Diameter, 100-lb Coil, 9600' Coil	1 Each	1
10	9434T17 Steel Clamp with One Mounting Hole, 1/2" ID, Packs of 50	2 Packs	2
11	2424A55 Conduit Bender, 1/2 EMT Capacity, Aluminum	1 Each	1
12	2424A65 Conduit Bender, 3/4 EMT, 1/2 IMC & Rigid Capacity, Aluminum	1 Each	1
13	69995K84 Battery Box, 11-3/4" H X 11" W X 7-7/8" D Inside, Polypropylene	1 Each	1
14	4424A506 Flexible Cylinder Hone, for Aluminum & Soft Metals, 7/8" Cylinder ID, 320 Grit	1 Each	1
15	4424A506 Flexible Cylinder Hone, for Aluminum & Soft Metals, 7/8" Cylinder ID, 600 Grit	1 Each	1
16	91732A368 18-8 Stainless Steel Standard Helical Insert, 1/4"-20 Internal Thread, .25" Length, MS122081, Packs of 10	3 Packs	3
17	2684A29 Through-Hole Tap for Steel, Stainless Steel, & Fiberglass, 4-40 Thread Size	3 Each	3

1
2016-01-15

McMaster-Carr Supply Company
200 Aurora Industrial Pkwy
Aurora, OH 44202-8087 USA
Phone: 330-995-5500 Fax: 330-995-9600
E-Mail: cle.sales@mcmaster.com
Employer Identification Number (EIN): 36-1458720

Invoice: 47076967
Purchase Order: PO30969
Release:
McMaster-Carr Number: 5554149-01

ORIGINAL COMMERCIAL
INVOICE
CERTIFICATE OF ORIGIN

Ultimate Destination:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Shipped: 12-Jan-2016 FOB: ORIGIN
Shipper's Export Declaration (SED):
NO EEI 30.36

Intermediate Consignee:

Bill To:
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Tax Number:

Forwarding Agent:

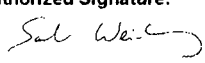
Billing
Attention:
Shipping
Attention:
Contact:

Line	Description	Qty & Unit	Unit Price	Extension
1	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width Country of Origin: United States Schedule B #: 391610 ECCN #: EAR99 NLR	40 FT	\$3.26	\$130.40
2	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 8' Long Country of Origin: United States Schedule B #: 391610 ECCN #: EAR99 NLR	24 FT	\$2.28	\$54.72
3	95606A170 Nylon Flat Washer, 7/16" Screw Size, 0.500" ID, 0.688" OD, Off-White, Packs of 100 Country of Origin: United States Schedule B #: 392690 ECCN #: EAR99 NLR	1 PK	\$8.60	\$8.60
4	92311A599 18-8 Stainless Steel Cup Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50 Country of Origin: Taiwan Schedule B #: 731815 ECCN #: EAR99 NLR	2 PK	\$10.80	\$21.60

88/16-01-15

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to US law is prohibited.

Shipping Weight (in kgs): 95	Number of Packages: 2	Invoice Amounts:	Merchandise Amount: \$973.97
Package Dimensions:			Canadian GST/HST: \$126.61
			Total (in USD): \$1,100.58
Payment Terms: 2% discount on merchandise only if paid within 10 days, net 30 days			
Authorized Signature: 	Date: 12-Jan-2016	Remit payment to:	(by wire transfer) Bank of America Illinois 231 S LaSalle Chicago, IL 60697 ABA 071000039 Account 86666-02021 SWIFT BOFAUS3N
Name: Sarah Weinberg	Title: Operations Mgr.	(by mail) McMaster-Carr Supply Company PO Box 7690 Chicago, IL 60680-7690 USA	